User manual LED RGBW FM

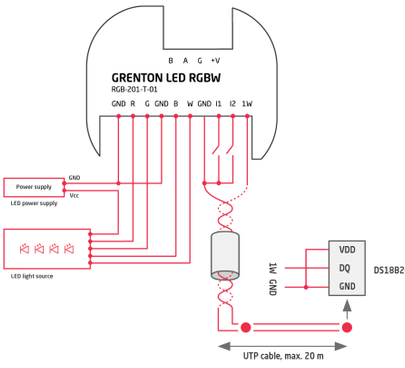
RGB-201-T-01

Grenton LED RGBW lighting control module enables smooth and full control of decorative lighting using LED RGBW technology. It also allows you to connect up to two digital inputs and two 1-Wire sensors.

1. Technical data

Device power supply	$24V_{dc}$
Maximum power consumption	0,48W
Maximum device current	20mA (for $24V_{dc}$)
LED power supply (Vcc)	up to $24V_{dc}$
Maximum load current RGBW	12A (total for all channels)
Maximum channel load current	4A
PWM output frequency	250Hz
Maximum number of 1wire sensors	2
Maximum wire cross section	$1,5mm^2$
Weight	30g
Fixing	flush mounted
Dimensions (H/W/D)	19/45/36mm
Operating temperature range	0 to +45°C

2. Wiring diagram



+V	Device power supply
G	GND for +V
A	A signal input
B	B signal input
1W	1-Wire input
I2	second digital input
I1	first digital input
GND	GND for 1-Wire and digital inputs
W	"White" output
B	"Blue" output
GND	GND
G	"Green" output
R	"Red" output
GND	GND

- Both GND signals must be connected for operation on "Red", "Green", "Blue", "White" outputs.

3. Warnings and Cautionary Statements

ATTENTION !

- Before proceeding with the assembly, read the installation schematics and full instructions available at www.grenton.com. Failure to follow the guidelines contained in the instructions and other requirements of due care valid as a result of the nature of the equipment (device) may be dangerous to life / health, damage the device or installation to which it is connected, damage other property or violate other applicable regulations. The manufacturer of the device, Grenton Sp. z o. o. does not bear any responsibility for the damage (property and non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device).
- Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.
- The product is not intended for children and animals.
- If you have technical questions or comments about the device operation, contact Grenton Technical Support.
- Answers to frequently asked questions can be found at: www.support.grenton.com.

DANGER !

- Danger to life caused by electric current!
- The components of the installation (individual devices) are designed to work in a home electrical installation or directly in its vicinity. Incorrect connection or use may cause a fire or electric shock.
- All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or licences.
- When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

4. CE Marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the directives of a new approach appropriate for this equipment. In particular, Grenton Sp. z o. o. declares that the device fulfills the requirements on safety, specified by law, and that it conforms to the national regulations that implement the appropriate directives: The Directive on the electromagnetic compatibility (EMC - 2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).

5. Warranty

Warranty available at www.grenton.com/warranty.

6. Manufacturer Contact Details

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